

**IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY SECTION
CONSTRUCTION PERMIT APPLICATION**

SCHEDULE-10, Suspended Solids Contact

Date Prepared	Project Identity
Date Revised	

1. Design Data:

	Unit No.	Unit No.
Capacity (gpm)		
Detention time (hours)		
Flocculation and mixing time (minutes)		
Upflow rate at solids separation line (gpm/ft ²)		
Weir (launder) length (feet)		
Weir (launder) loading rate (gpm/ft)		
Tank parameter (feet)		
Water loss (water to waste %)		
Solids concentration (sludge bled to waste %)		
Diameter of sludge withdrawal piping (inches)		
Softening unit-continuous slurry concentrate (%)		

2. For the following, reference the page of the plans or specifications where the description can be found.

Materials and Construction Details	Plan or Specification Page Number
Equipment Installation	
Chemical Feed	
Mixing	
Flocculation	
Sludge Concentrators	
Weir or Orifices	

3. Chemical Addition:

Chemical	Point of Addition

4. What is the magnitude of the mixing device speed adjustment?

spec. page no. _____

5. What provisions have been made for controlling the rate and sequencing of sludge withdrawal?

spec. page no. _____

6. Are cleanouts provided at all changes in pipe direction to facilitate cleaning? Yes ☐ No ☐

7. Are all valves located outside of the tank? Yes ☐ No ☐

8. Are sludge withdrawal pipes provided for each unit? Yes ☐ No ☐ What is the minimum air gap provided between the sludge outlet and the receiving sump? _____ inches

9. Can the operator observe and sample sludge? Yes ☐ No ☐

10. If sludge lines, collectors or basins are provided with potable water flushing systems, are cross connection control devices provided which meet AWWA Standard C506 and are approved by the USC Testing Lab? Yes ☐ No ☐ spec page no. _____

11. How is the rate of flow to the unit controlled? _____

a. Maximum inlet flow rate: _____ gpm

b. Maximum operating inlet flow rate: _____ gpm

12. Will rapid changes of flow to the unit occur? Yes ☐ No ☐